

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number		10660382
Filing Date		2003-09-10
First Named Inventor	Graetz et al.	
Art Unit	1745	
Examiner Name	Lee, Cynthia K	
Attorney Docket Number	26-06	

**U.S. PATENTS**[Remove](#)

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6852446		2005-02-08	Barbarich	
	2	6844115		2005-01-18	Gan et al.	
	3	6743547		2004-06-01	Gan et al.	
	4	6713214		2004-03-30	Koga et al.	
	5	6358649		2002-03-19	Yazami et al.	
	6	5175066		1992-12-29	Hamwi et al.	
	7	5114811		1992-05-19	Ebel et al.	
	8	4431567		1984-02-14	Gestauf et al.	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10660382
Filing Date		2003-09-10
First Named Inventor	Graetz et al.	
Art Unit	1745	
Examiner Name	Lee, Cynthia K	
Attorney Docket Number	26-06	

9	4119655		1978-10-10	Hulme	
10	3956018		1976-05-11	Kozawa	
11	3536532		1970-10-27	Wantanabe et al.	
12	6649033		2003-11-18	Yagi et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

**U.S.PATENT APPLICATION PUBLICATIONS**

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20050227146		2005-10-13	Ghantous et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

**FOREIGN PATENT DOCUMENTS**

Remove

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	0203430	WO		2002-01-10	Flagan et al.		<input type="checkbox"/>
	2	0776053	EP		1997-05-28	El-shall et al.		<input type="checkbox"/>

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	10660382
Filing Date	2003-09-10
First Named Inventor	Graetz et al.
Art Unit	1745
Examiner Name	Lee, Cynthia K
Attorney Docket Number	26-06

3	1028476	EP		2000-08-16	Kaminaka et al.		<input type="checkbox"/>
---	---------	----	--	------------	-----------------	--	--------------------------

If you wish to add additional Foreign Patent Document citation information please click the Add button [Add](#)

## NON-PATENT LITERATURE DOCUMENTS

[Remove](#)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	Ts
	1	ARORA and ZHANG, 2004, "Battery Separators," Chem. Rev., 104:4419-4462	<input type="checkbox"/>
	2	CHARLIER et al., 1993, "First principles study of graphite monofluoride (CF)n," Phys. Rev. B, 47:16162-16168	<input type="checkbox"/>
	3	DAVIDSON, 2003, "Lithium Batteries, Molecular Expressions, Electricity and Magnetism," Florida State Univ., <a href="http://micro.magnet.fsu.edu/electromag/electricity/batteries/lithium.html">http://micro.magnet.fsu.edu/electromag/electricity/batteries/lithium.html</a>	<input type="checkbox"/>
	4	EBERT et al., 1974, "Carbon monofluoride. Evidence for a structure containing an infinite array of cyclohexane boats," J. Am. Chem Soc., 96:7841-7842	<input type="checkbox"/>
	5	FUJIMOTO, 1997, "Structure analysis of graphite fluoride by Retveld method," Carbon, 35:1061-1065	<input type="checkbox"/>
	6	GUPTA et al., 2001, "Raman scattering study of highly fluorinated graphite," J. Fluorine Chem., 110:145-151	<input type="checkbox"/>
	7	International Search Report Corresponding to PCT/US 2003/28395 Mailed February 8, 2005	<input type="checkbox"/>
	8	JACOBS, "Lithium battery basics, Machine Design, <a href="http://www.machinedesign.com/ASP/strArticleID/55501/strSite/MDSite/view_Seleced_Art.asp">www.machinedesign.com/ASP/strArticleID/55501/strSite/MDSite/view_Seleced_Art.asp</a> , downloaded Oct. 14, 2005	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

Application Number	10660382
Filing Date	2003-09-10
First Named Inventor	Graetz et al.
Art Unit	1745
Examiner Name	Lee, Cynthia K
Attorney Docket Number	26-06

9	JACOBS, "Long-lasting lithiums," Electron. Comm Technol., <a href="http://dataweek.co.za/Article ASP?pkArticleID=1847&amp;pkIssueID=455">http://dataweek.co.za/Article ASP?pkArticleID=1847&amp;pkIssueID=455</a> , Downloaded Oct. 14, 2005	<input type="checkbox"/>
10	KITA et al., 1979, "Chemical composition and crystal structure of graphite fluoride," J. Am. Chem. Soc., 101:3832-3841	<input type="checkbox"/>
11	LI, et al., 2000, "The crystal structural evolution of nano-Si anode caused by lithium insertion and extraction at room temperature," Solid State Ionics, 135:181-191	<input type="checkbox"/>
12	MITKIN et al., 2002, "X-ray photoelectron and Auger spectroscopic study of superstoichiometric fluorographite-like materials," J. Struct. Chem., 43:843-855	<input type="checkbox"/>
13	NAKAJIMA et al., 1999, "Electrochemical behavior of surface-fluorinated graphite," Electrochem. Acta, 44:2879-2888	<input type="checkbox"/>
14	NANSE et al., 1997, "Fluorination of carbon blacks: an x-ray photoelectron spectroscopy study. I. A literature review of XPS studies of fluorinated carbons. XPS investigation of some reference compounds," Carbon, 35:175-194	<input type="checkbox"/>
15	PELIKAN et al., 2003, "On the structural and electronic properties of poly(dicarbon monofluoride): solid-state semi-empirical INDO study," J. Solid State Chem., 174:233-240	<input type="checkbox"/>
16	PILARZYK, "Lithium carbon monofluoride coin cells in real-time clock and memory backup applications," Rayovac, White Papers, <a href="http://www.rayovac.com/technical/wp_lithium.htm">http://www.rayovac.com/technical/wp_lithium.htm</a> , Downloaded Oct 17, 2005	<input type="checkbox"/>
17	SHNEYDER, "Two-Dimensional Oxidation of SiGe," 69-71, <a href="http://www.nni.cornell.edu/1999REU/ra/Schneyder.pdf">http://www.nni.cornell.edu/1999REU/ra/Schneyder.pdf</a>	<input type="checkbox"/>
18	TOUHARA et al., 1987, "On the structure of graphite fluoride," Anorg. All. Chem., 544:7-20	<input type="checkbox"/>
19	WHITTINGHAM, 1975, "Mechanism of reduction of fluorographite cathode," J. Electrochem. Soc., 122:526-527	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10660382
Filing Date		2003-09-10
First Named Inventor	Graetz et al.	
Art Unit	1745	
Examiner Name	Lee, Cynthia K	
Attorney Docket Number	26-06	

20	ZAJAC et al., 2000, "The structure and properties of graphite monofluoride using the three-dimensional cyclic cluster approach," J. Solid State Chem., 150:286-293	<input type="checkbox"/>
21	ZHOU, et al., 1999, "Controlled Li doping of Si nanowires by electrochemical insertion method," Applied Physics Letters, 75(16):2447-2449	<input type="checkbox"/>
22	AUTHOR (UNKNOWN), 2004, "Meeting the energy need of future warriors," National Academic Press, www.nap.edu/openbook/0309092612/html/91.html	<input type="checkbox"/>
23	AUTHOR (UNKNOWN), 2004, "Meeting the energy need of future warriors," National Academic Press, www.nap.edu/openbook/0309092612/html/88.html	<input type="checkbox"/>
24	AUTHOR (UNKNOWN), "Lithium Batteries," Panasonic Ideas for Life, Product brochure, www.panasonic.com/industrial/battery/oem/chem/lith/index.html	<input type="checkbox"/>
25	AUTHOR (UNKNOWN), 2000-2005, "PowerStream Battery Chemistry FAQ, PowerStream Technology, www.powerstream.com/BatteryFAQ.html	<input type="checkbox"/>
26	Lam et al. (Jun. 27, 2005) "Physical Characteristics and Rate Performance of (CF <sub>x</sub> ) <sub>n</sub> (0.33<x<0.66) in Lithium Batteries," J. Power Sources 153:354-359	<input type="checkbox"/>
27	International Search Report Corresponding to PCT/US 05/37871, Mailed Apr. 19,2006	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10660382
Filing Date	2003-09-10
First Named Inventor	Graetz et al.
Art Unit	1745
Examiner Name	Lee, Cynthia K
Attorney Docket Number	26-06

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/s/bbarone/	Date (YYYY-MM-DD)	2006-05-04
Name/Print	Stephen B. Barone	Registration Number	53968

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.